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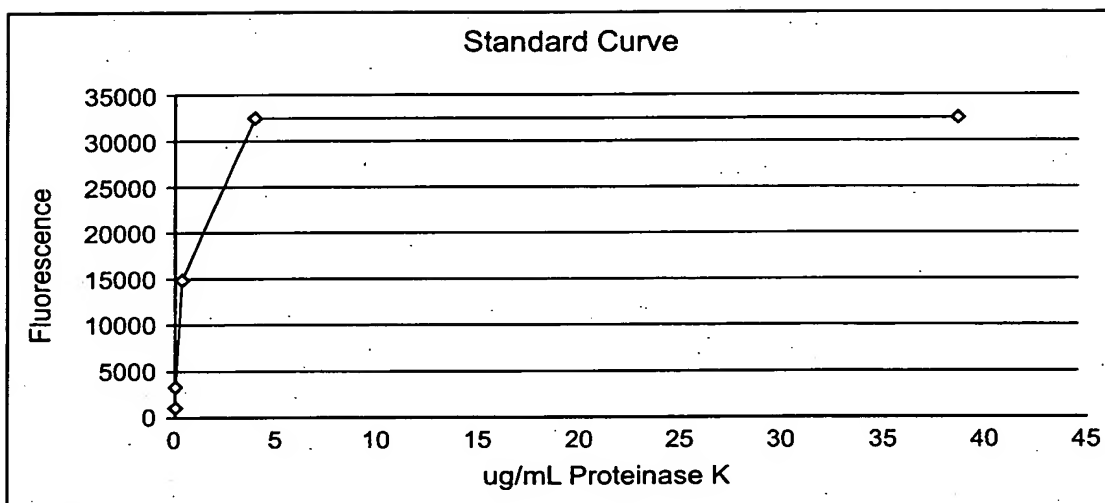


Figure 1

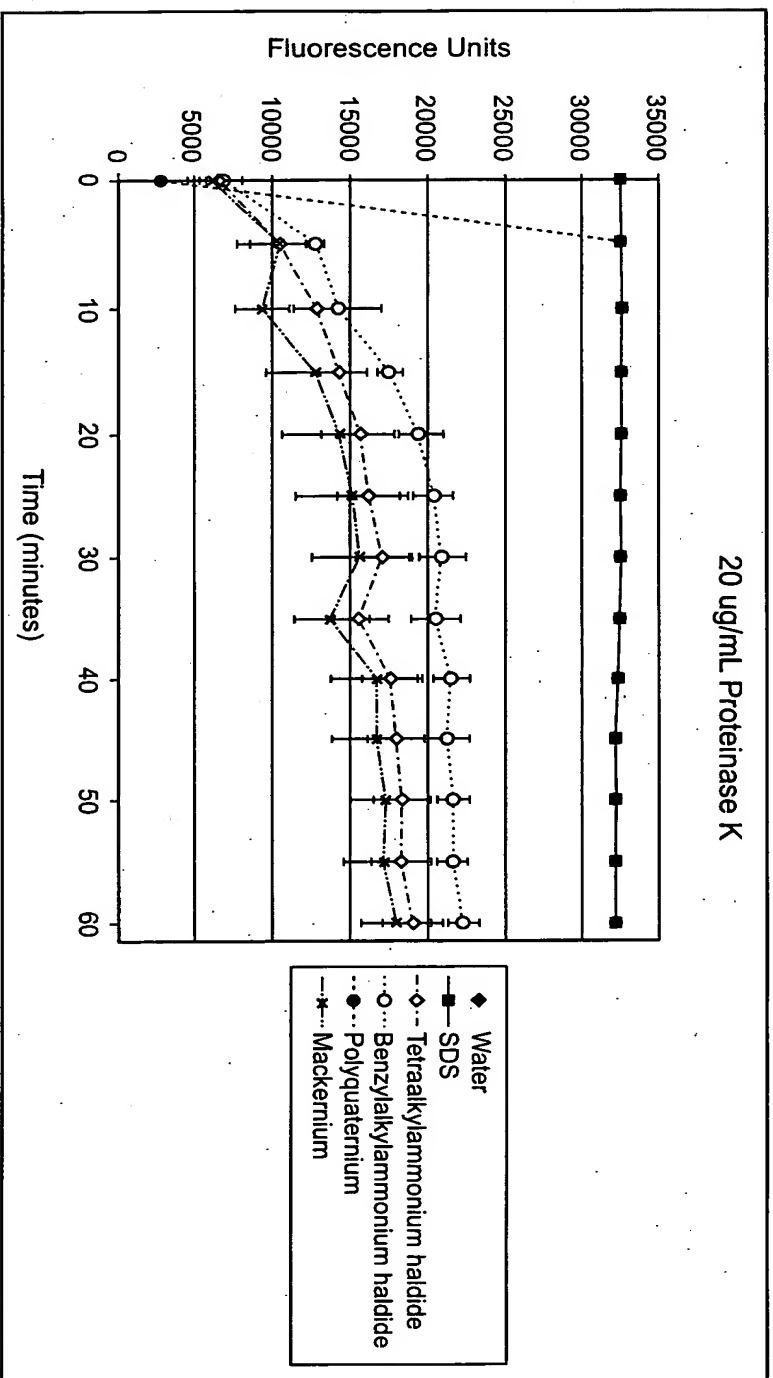


Figure 2A

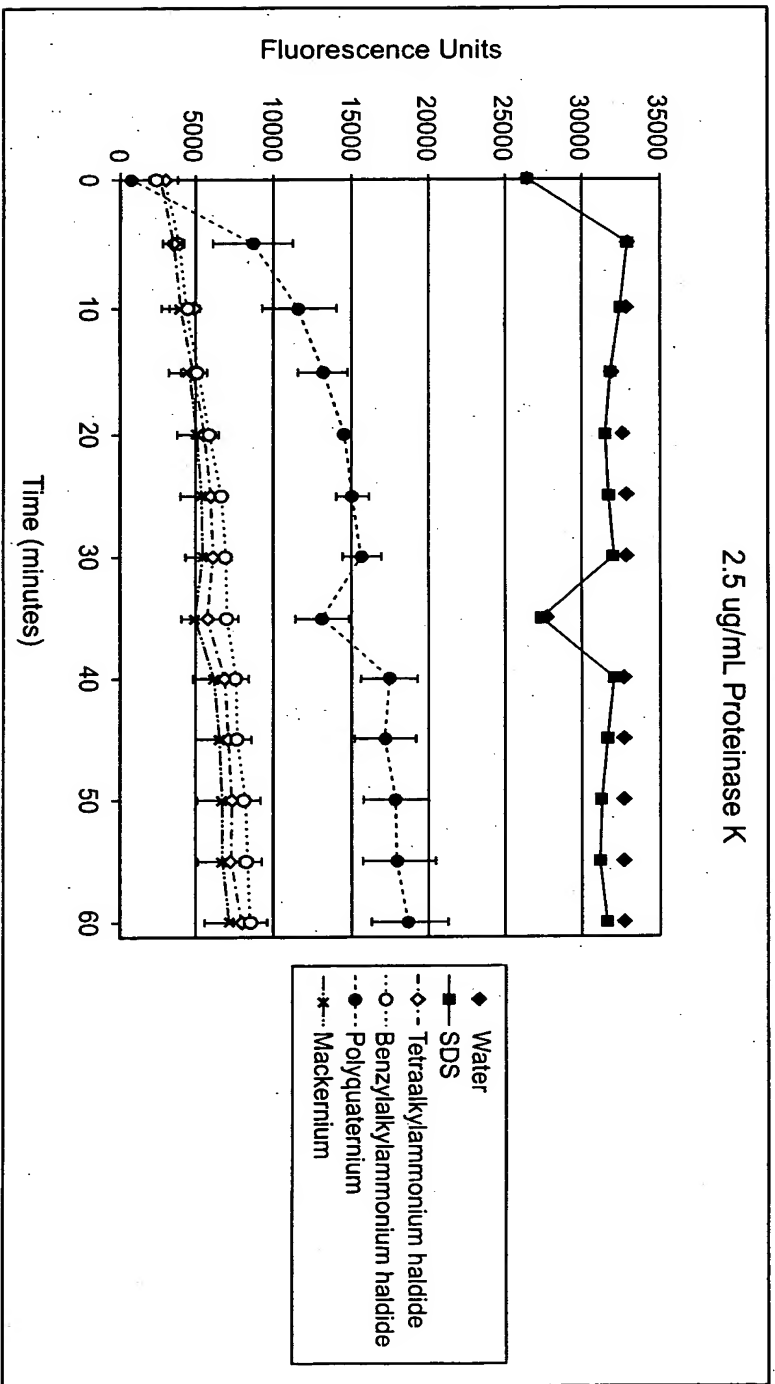


Figure 2B

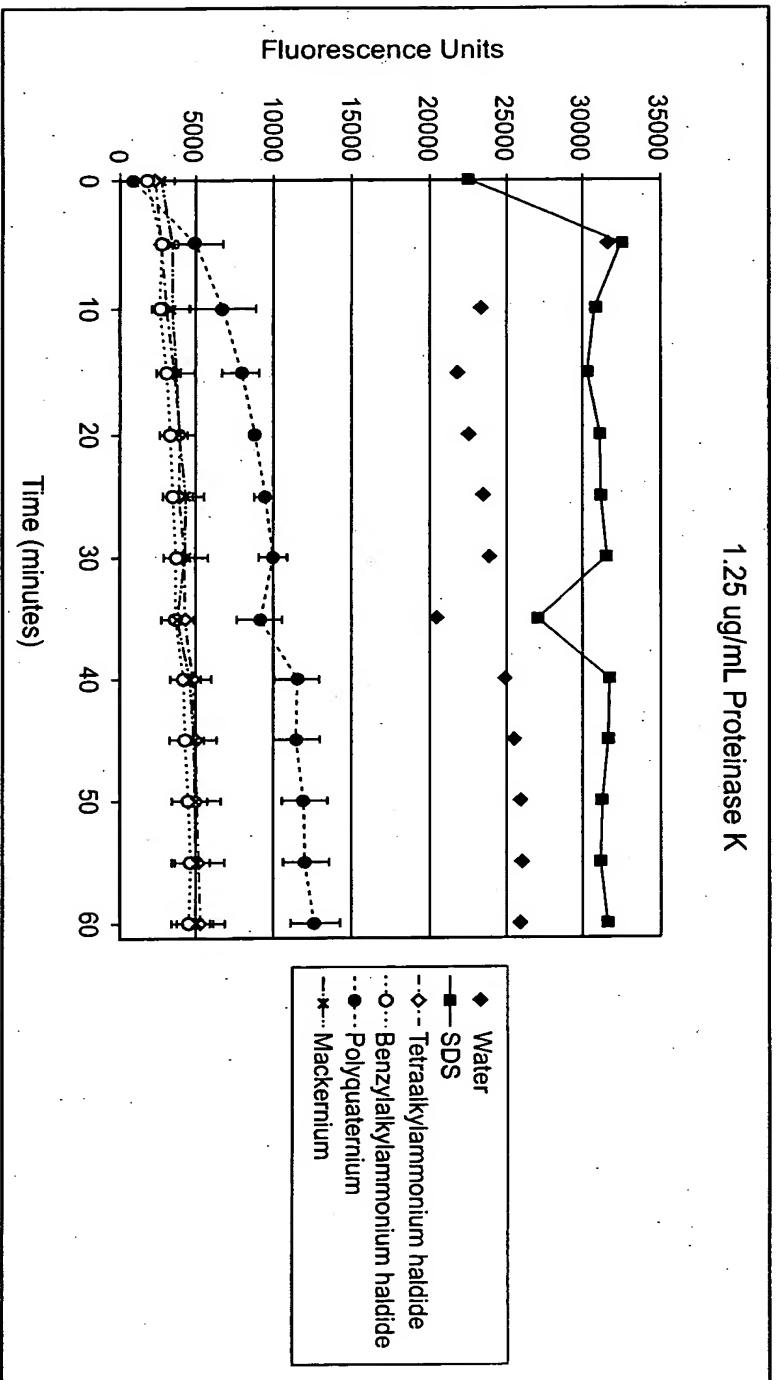


Figure 2C

Amount nucleic acid recovered from liver

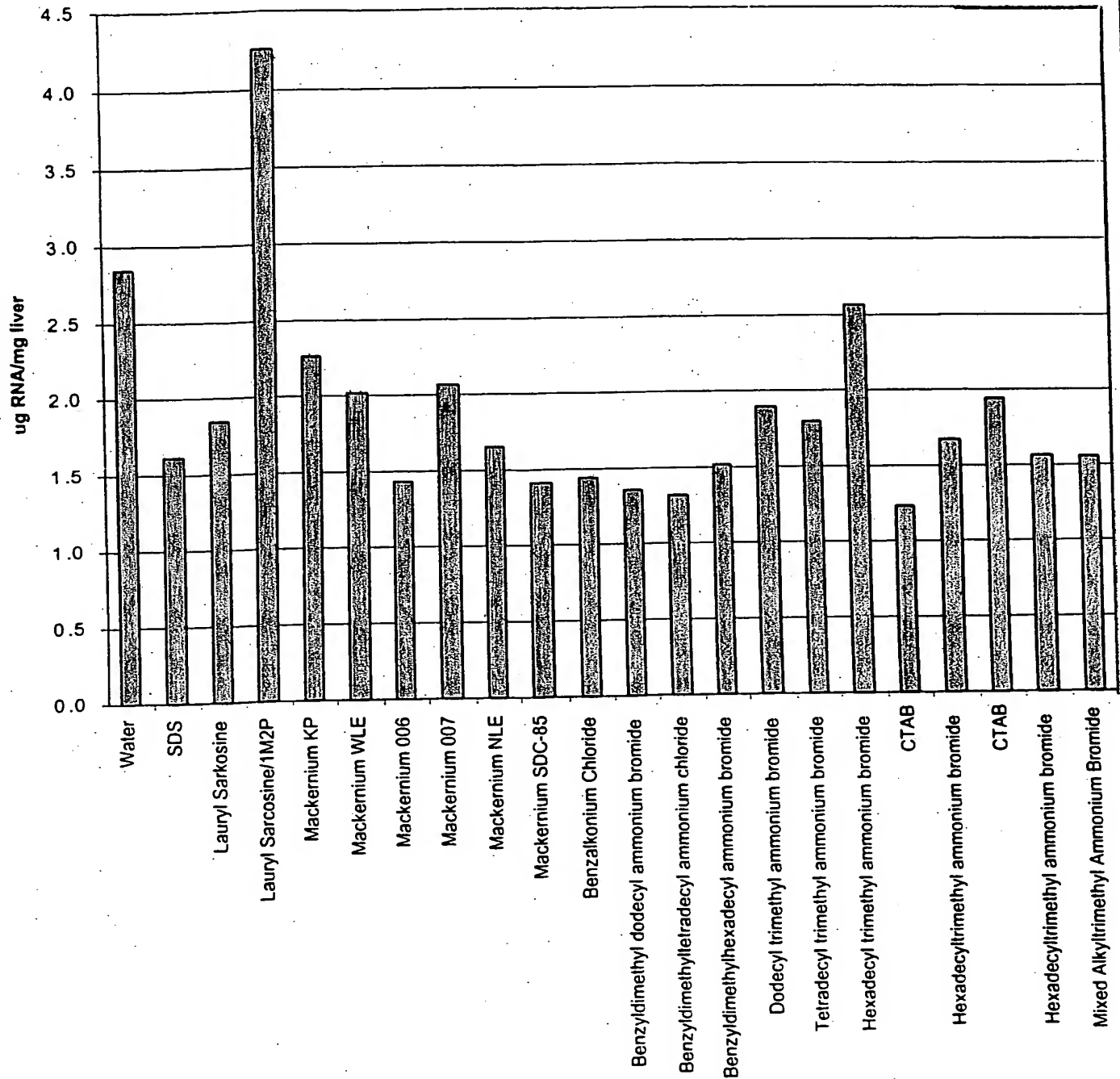


Figure 3

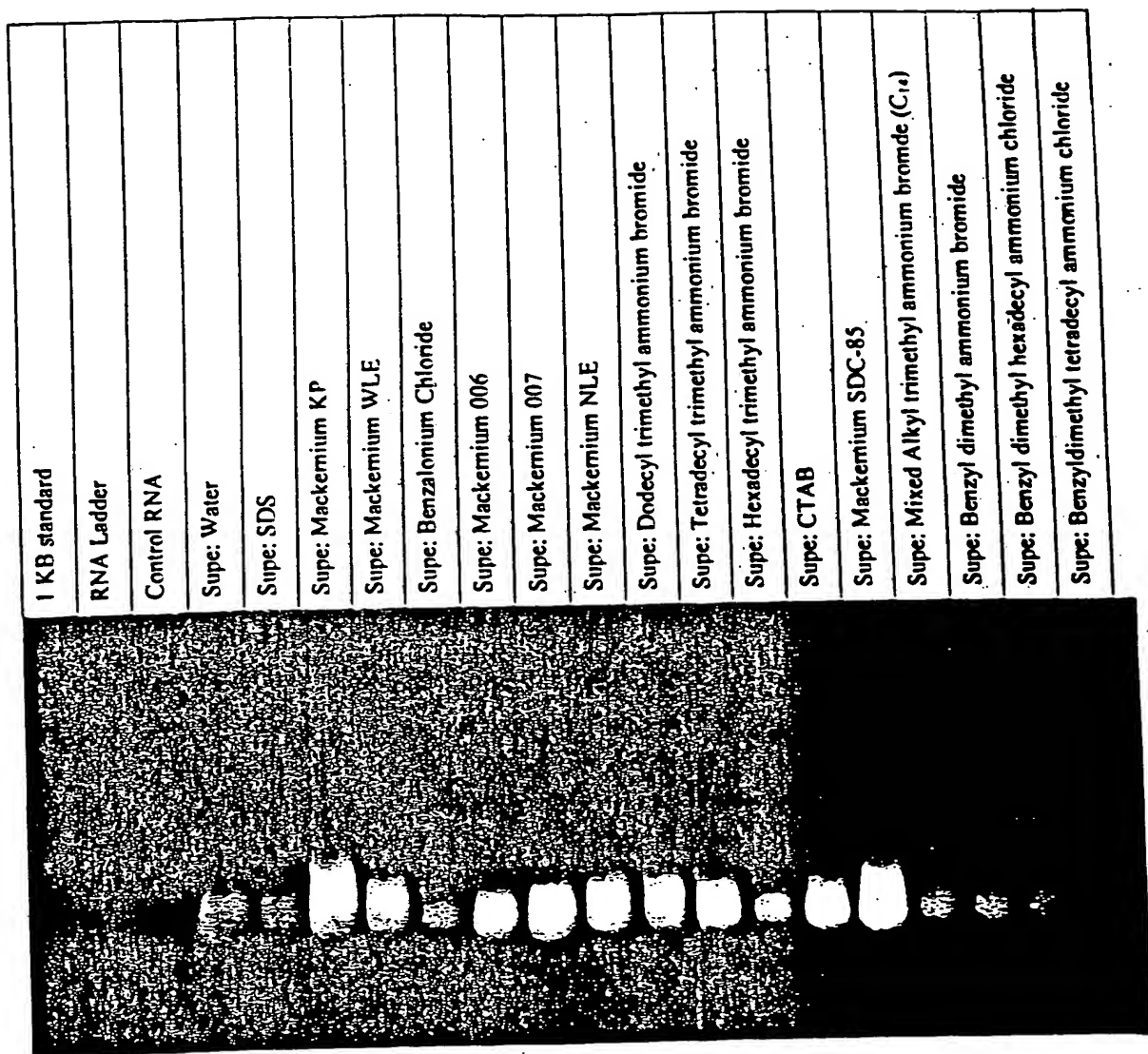


Figure 4A

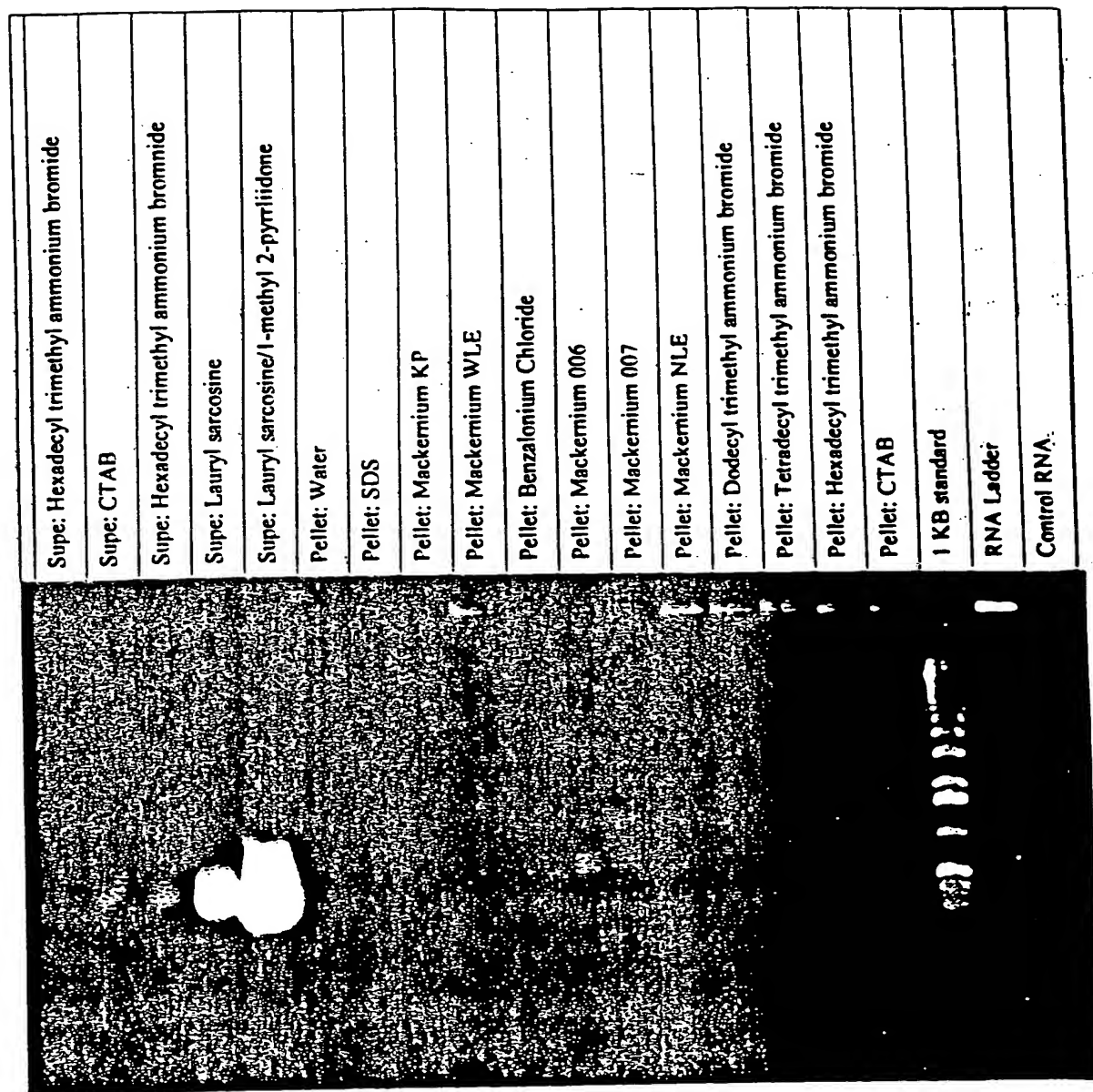


Figure 4B

**Amount nucleic acid released from liver
2 mg/mL Proteinase K 45°C 20 minutes plus**

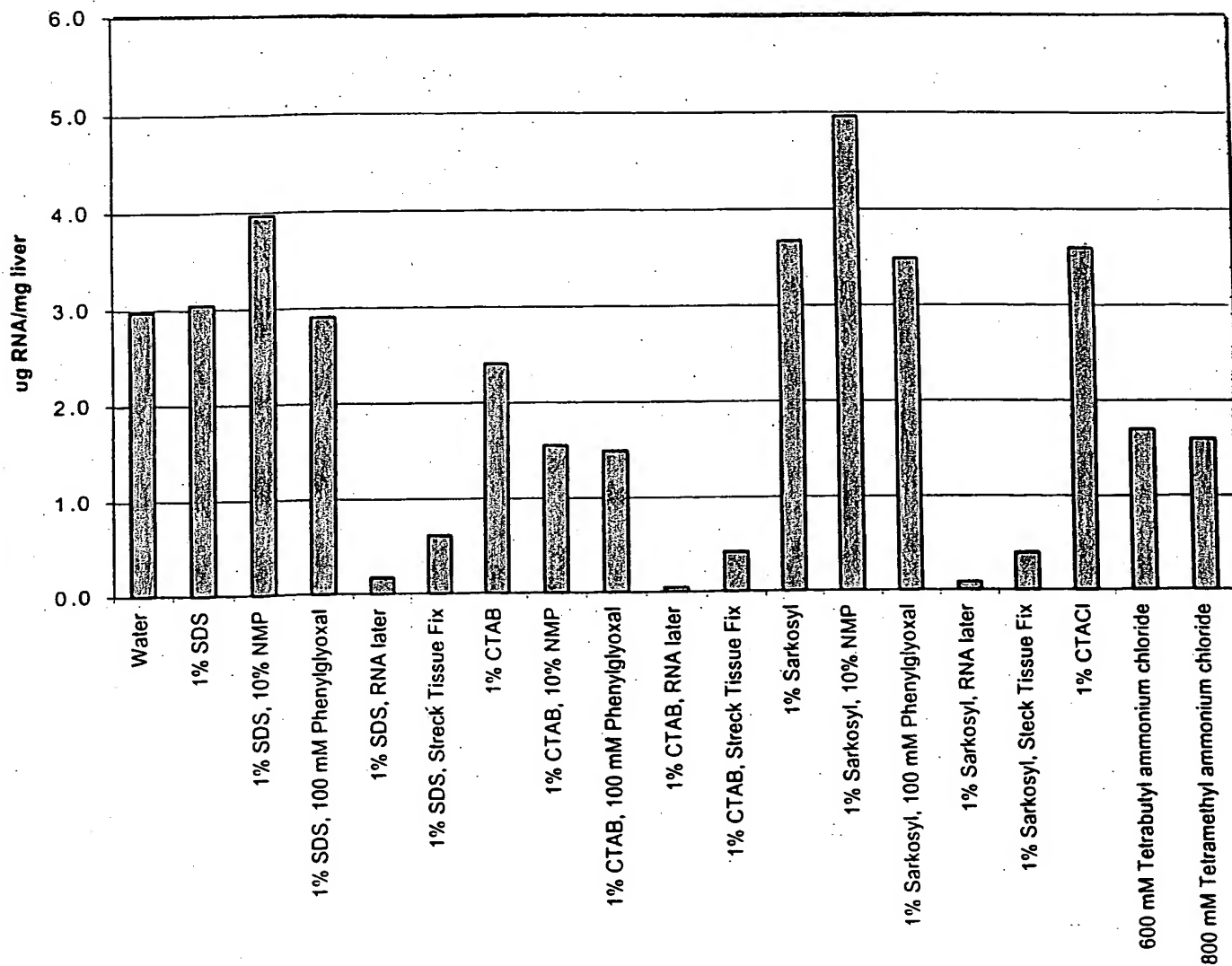


Figure 5

1KB DNA Standard	
RNA Ladder	
Human RNA control	
	No detergent
	1% SDS
10% 1 Methyl 2-pyrrolidinone	1% SDS
100 mM phenylglyoxal	1% SDS
RNA Later	1% SDS
Streck Tissue Fixative	1% SDS
	1% CTAB
10% 1 Methyl 2-pyrrolidinone	1% CTAB
100 mM phenylglyoxal	1% CTAB
RNA Later	1% CTAB
Streck Tissue Fixative	1% CTAB
	1% Sarkosyl
10% 1 Methyl 2-pyrrolidinone	1% Sarkosyl
100 mM phenylglyoxal	1% Sarkosyl
RNA Later	1% Sarkosyl
Streck Tissue Fixative	1% Sarkosyl
	1% CTACl
600 mM tetrabutyl ammonium	No detergent
800 mM tetramethyl	No detergent

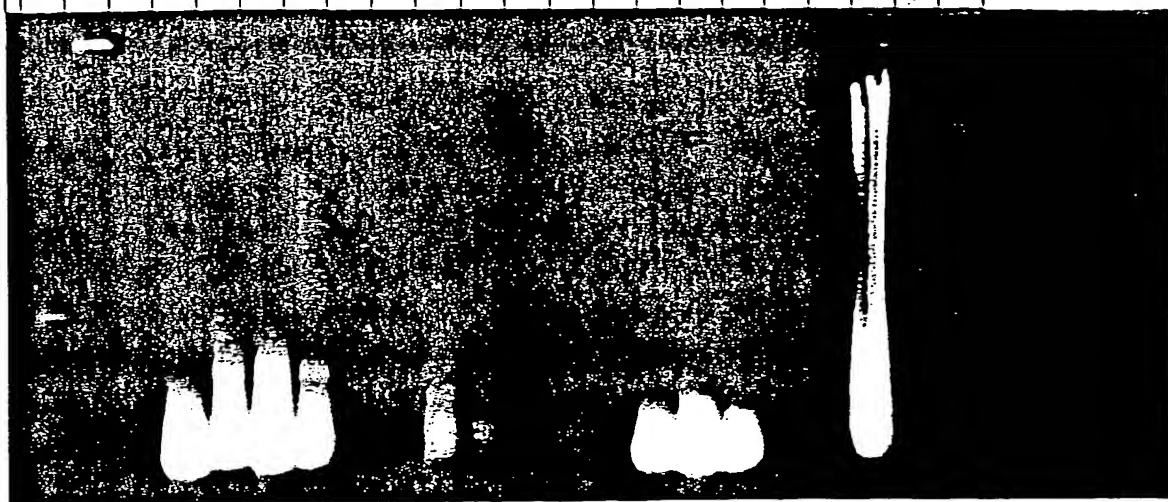


Figure 6

Release of OD260 from Liver
1 mg Proteinase K, 45oC 30 minutes

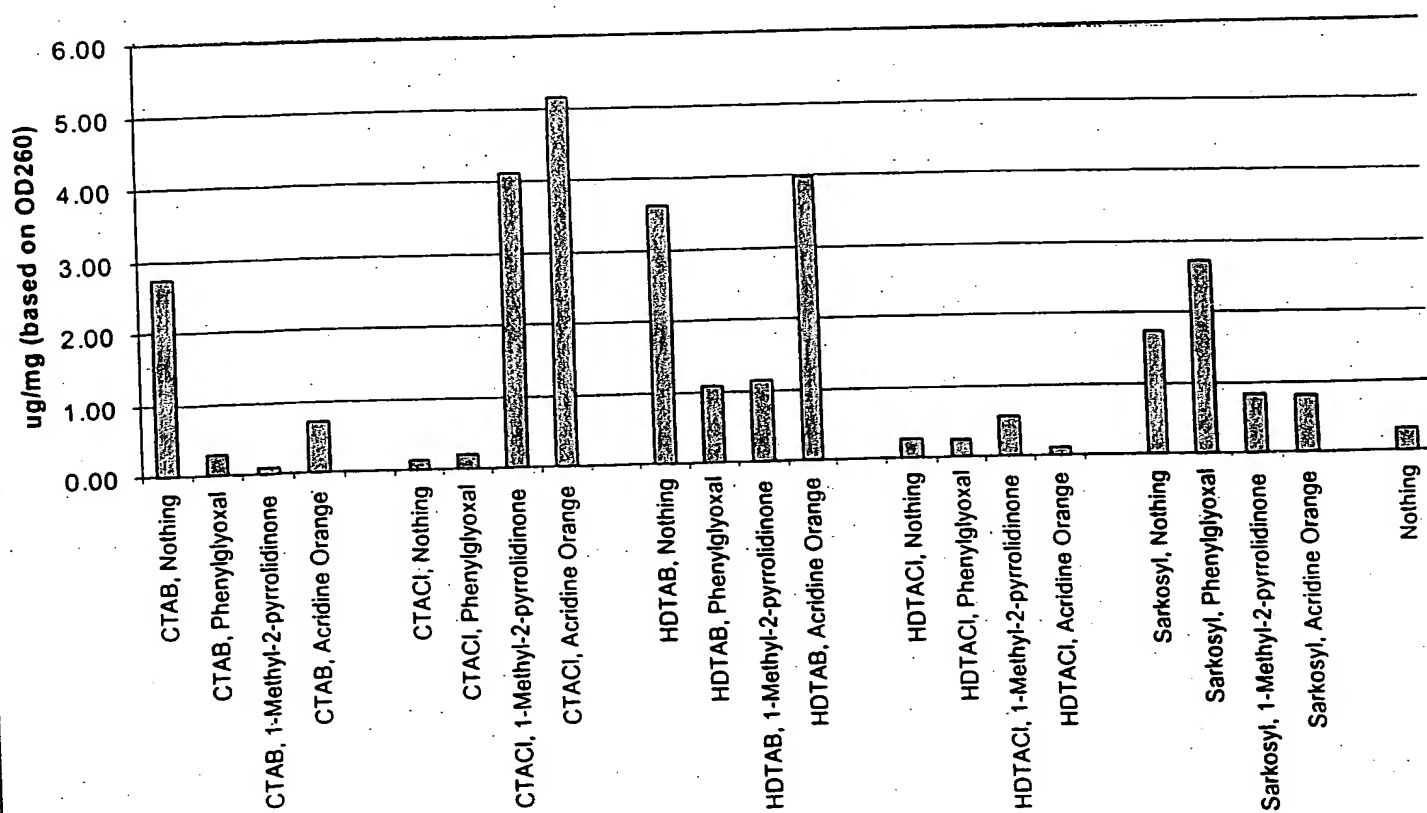


Figure 7

None	Cetyltrimethylammonium bromide
phenylglyoxal	Cetyltrimethylammonium bromide
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium bromide
Acridine Orange	Cetyltrimethylammonium bromide
None	Cetyltrimethylammonium chloride
phenylglyoxal	Cetyltrimethylammonium chloride
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium chloride
Acridine Orange	Cetyltrimethylammonium chloride
None	Hexadecyltrimethylammonium bromide
phenylglyoxal	Hexadecyltrimethylammonium bromide
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium bromide
Acridine Orange	Hexadecyltrimethylammonium bromide
None	Hexadecyltrimethylammonium chloride
phenylglyoxal	Hexadecyltrimethylammonium chloride
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium chloride
Acridine Orange	Hexadecyltrimethylammonium chloride
None	Sarkosyl
phenylglyoxal	Sarkosyl
1-methyl-2-pyrrolidinone	Sarkosyl
Acridine Orange	Sarkosyl
	No detergent

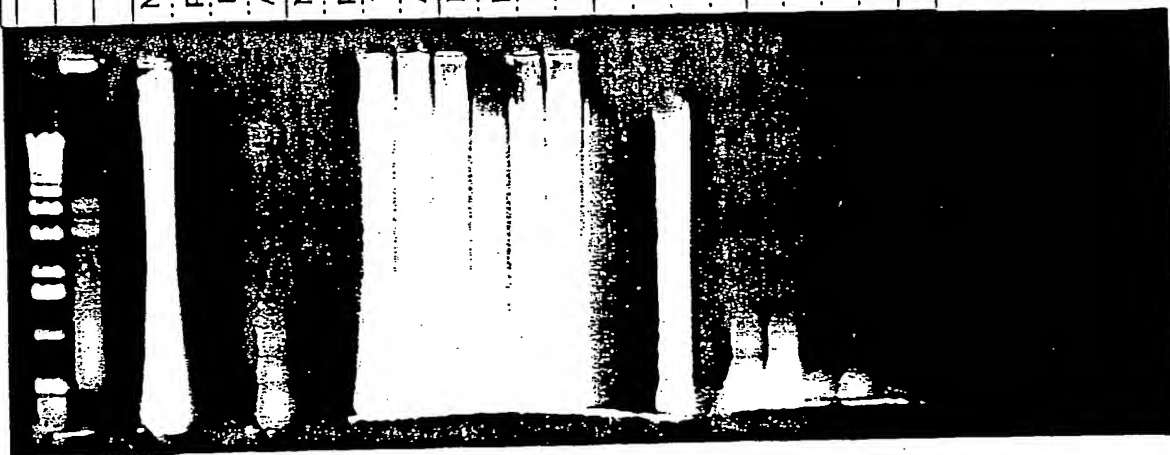


Figure 8

**Effect of Tissue Presoaking
1 mg Proteinase K, 45°C 30 minutes**

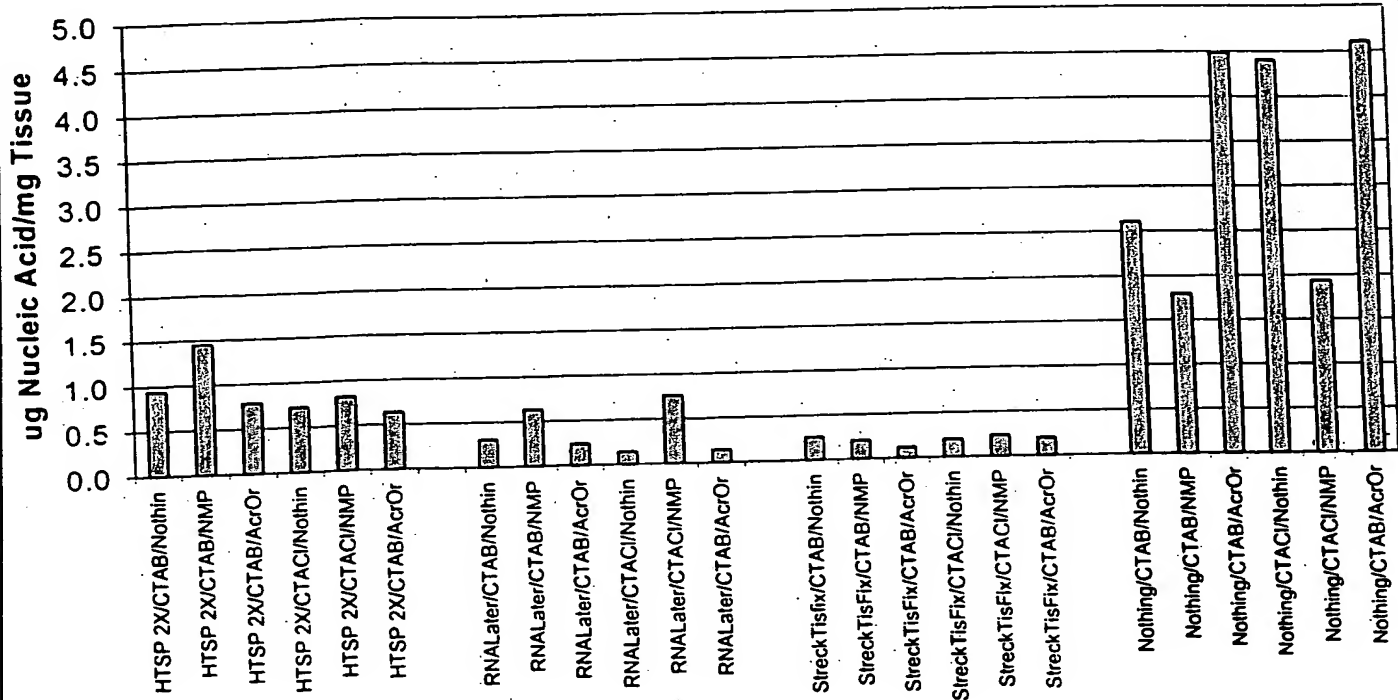


Figure 9

		2XHTSP		RNA Later		Streck Tissue Fixat		Nothing	
		CTAB	CTACI	CTAB	CTACI	CTAB	CTACI	CTAB	CTACI
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	

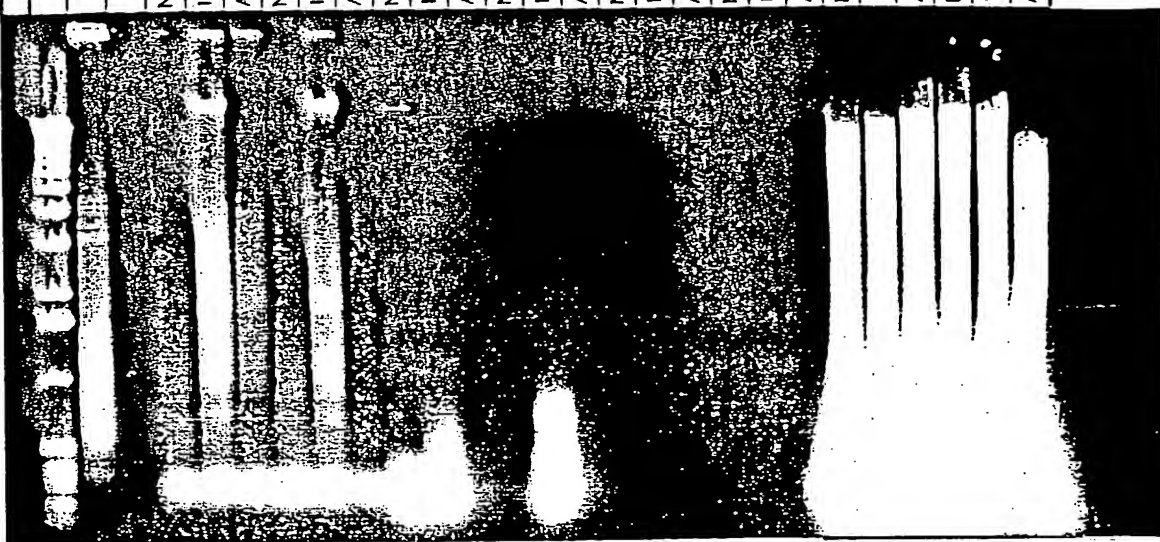


Figure 10

1% CTAB						1% CTACl						1% SDS					
5 mM Aurintricarboxylic Acid						5 mM Aurintricarboxylic Acid						5 mM Aurintricarboxylic Acid					
2 mM Aurintricarboxylic Acid						2 mM Aurintricarboxylic Acid						2 mM Aurintricarboxylic Acid					
1 mM Aurintricarboxylic Acid						1 mM Aurintricarboxylic Acid						1 mM Aurintricarboxylic Acid					
0.5 mM Aurintricarboxylic Acid						0.5 mM Aurintricarboxylic Acid						0.5 mM Aurintricarboxylic Acid					
0.2 mM Aurintricarboxylic Acid						0.2 mM Aurintricarboxylic Acid						0.2 mM Aurintricarboxylic Acid					
0.1 mM Aurintricarboxylic Acid						0.1 mM Aurintricarboxylic Acid						0.1 mM Aurintricarboxylic Acid					

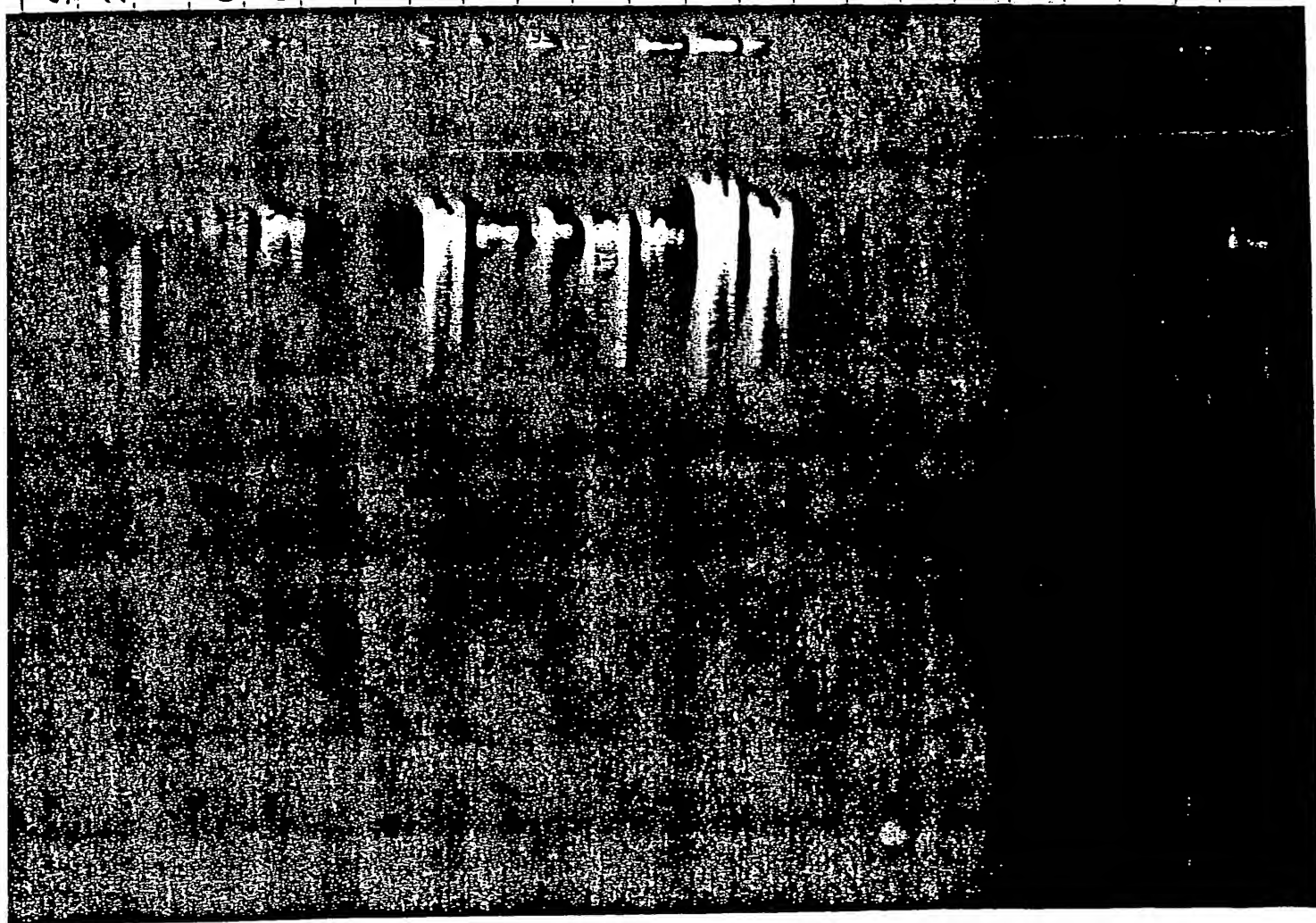


Figure 11

Dodecyltrimethylammonium bromide	
Tetradecyltrimethylammonium bromide	
Cetyltrimethylammonium bromide	
Cetyltrimethylammonium chloride	
Hexadecyltrimethylammonium bromide	
Hexadecyltrimethylammonium bromide	
Mackernium 006 (Polyquaternium 6)	
Mackernium KP (Olealkonium chloride)	
Mackernium NLE (Quaternium-84)	
Mackernium 007 (Polyquaternium-7)	
Mackernium Stearalkonium SDC85 Chloride	
Benzalkonium chloride	
SDS	
Nothing	

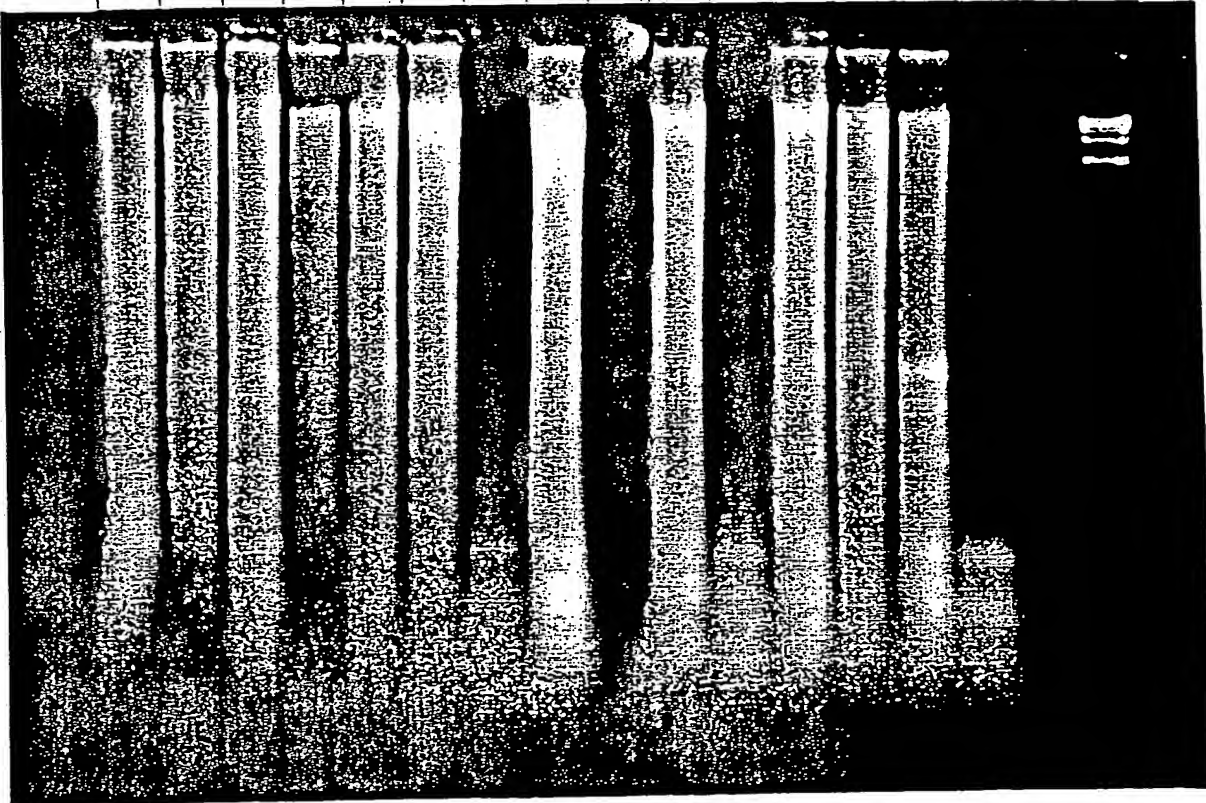


Figure 12

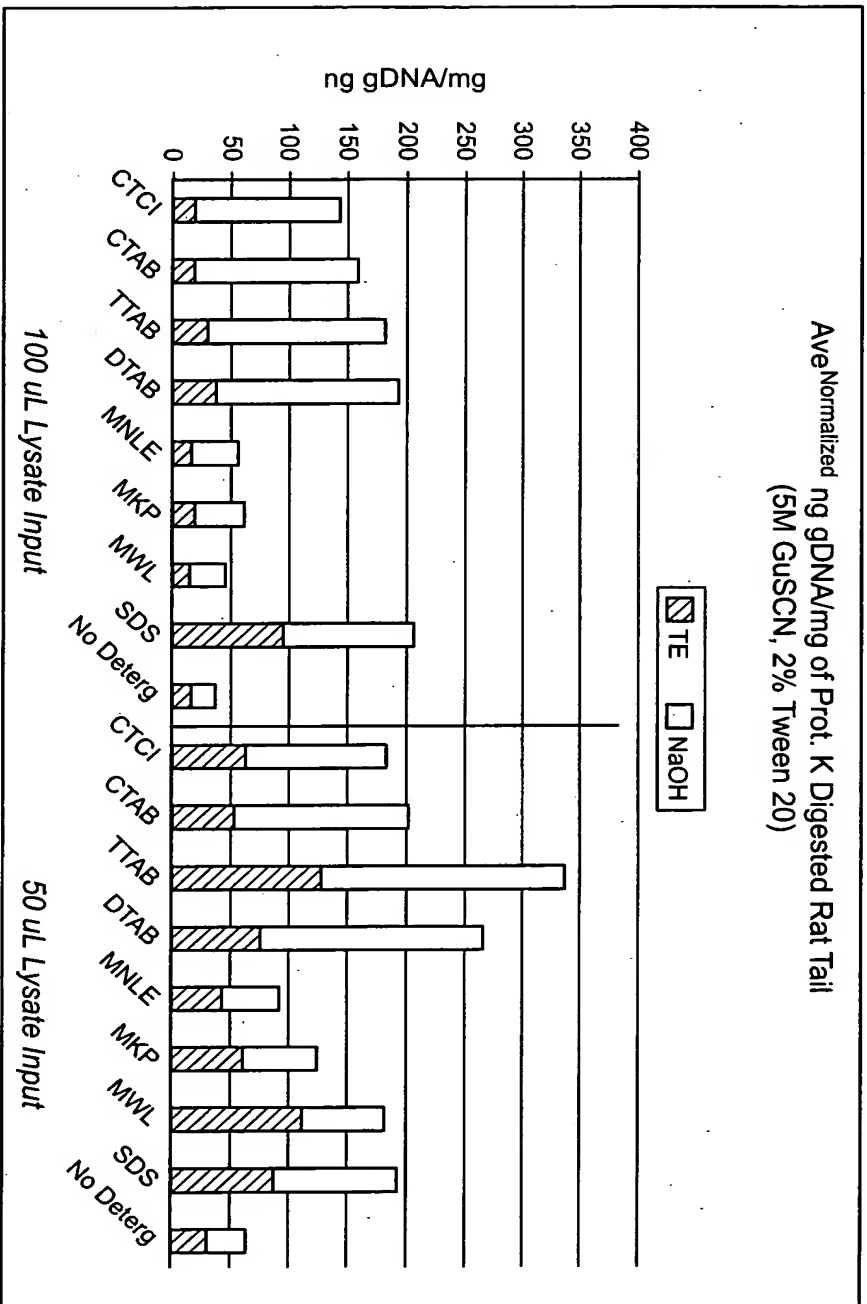


Figure 13

Figure 14

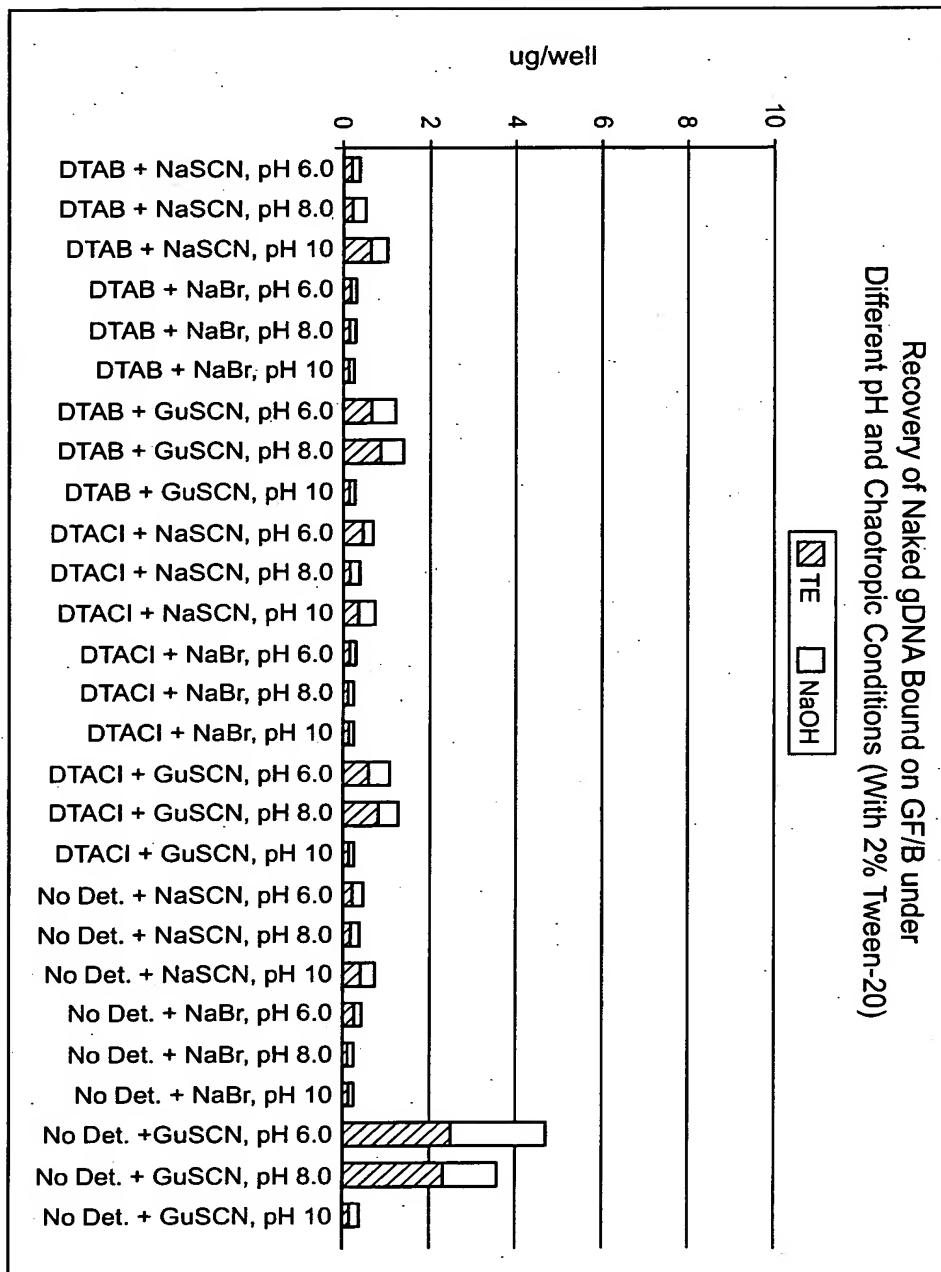
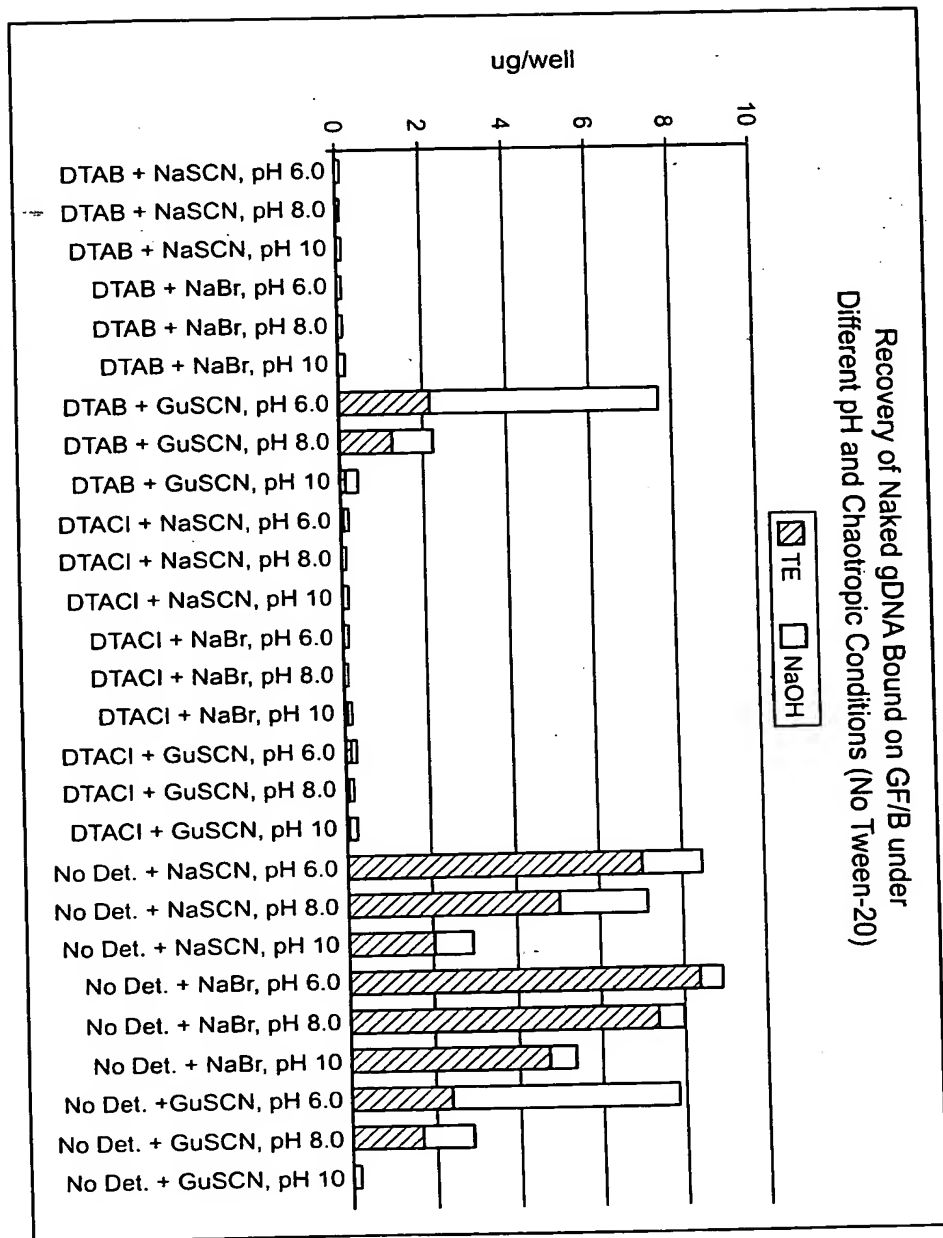


Figure 15



Effect of DTAB Added Before, During and After
DNA Binding on DNA Recovery (Input: 8 ug, N=3)

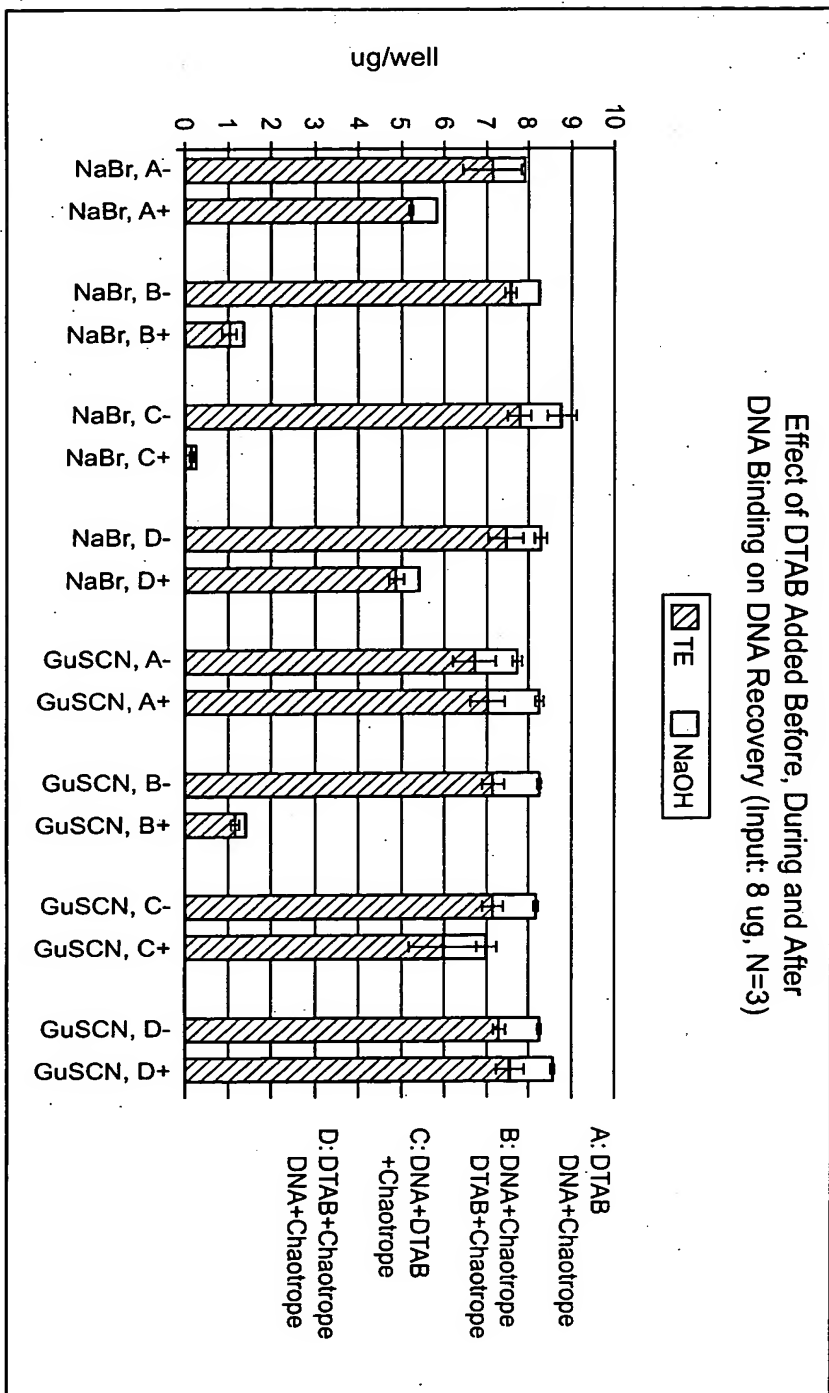


Figure 16

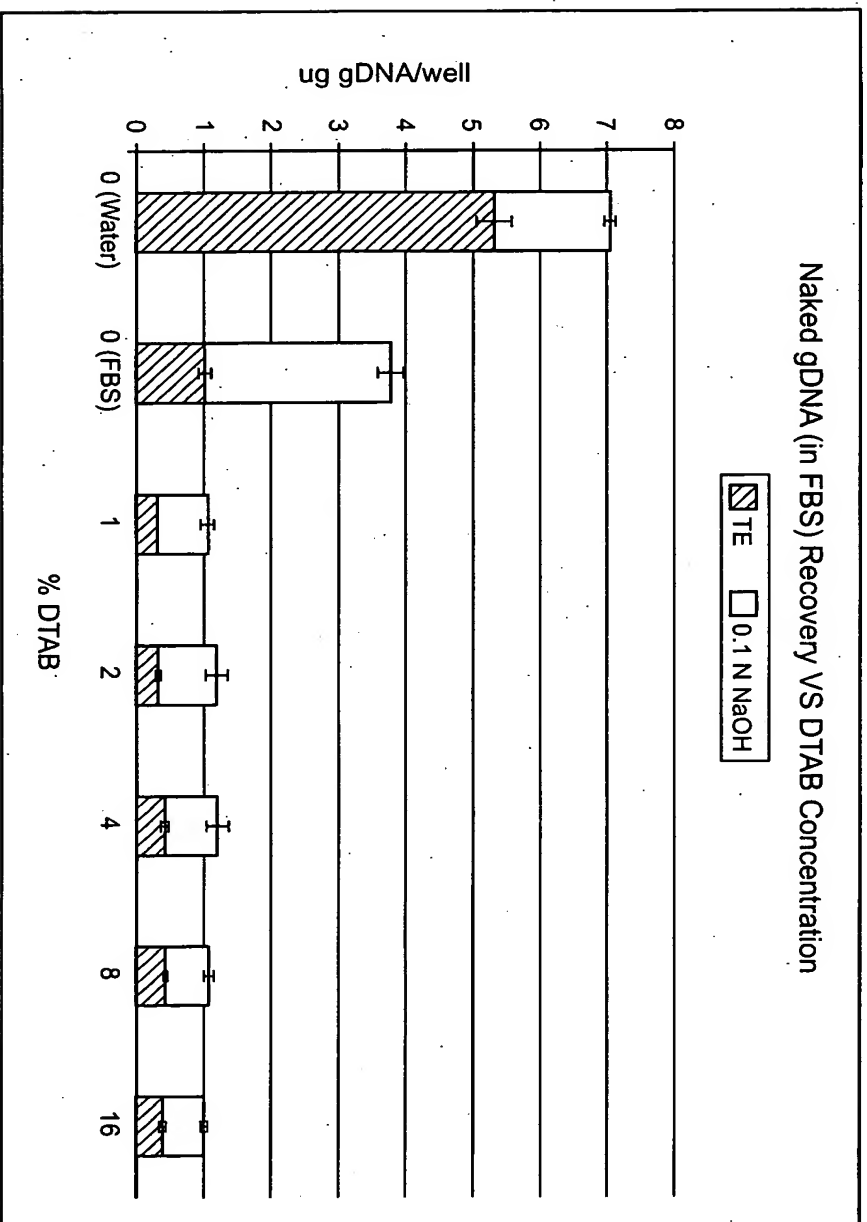


Figure 17

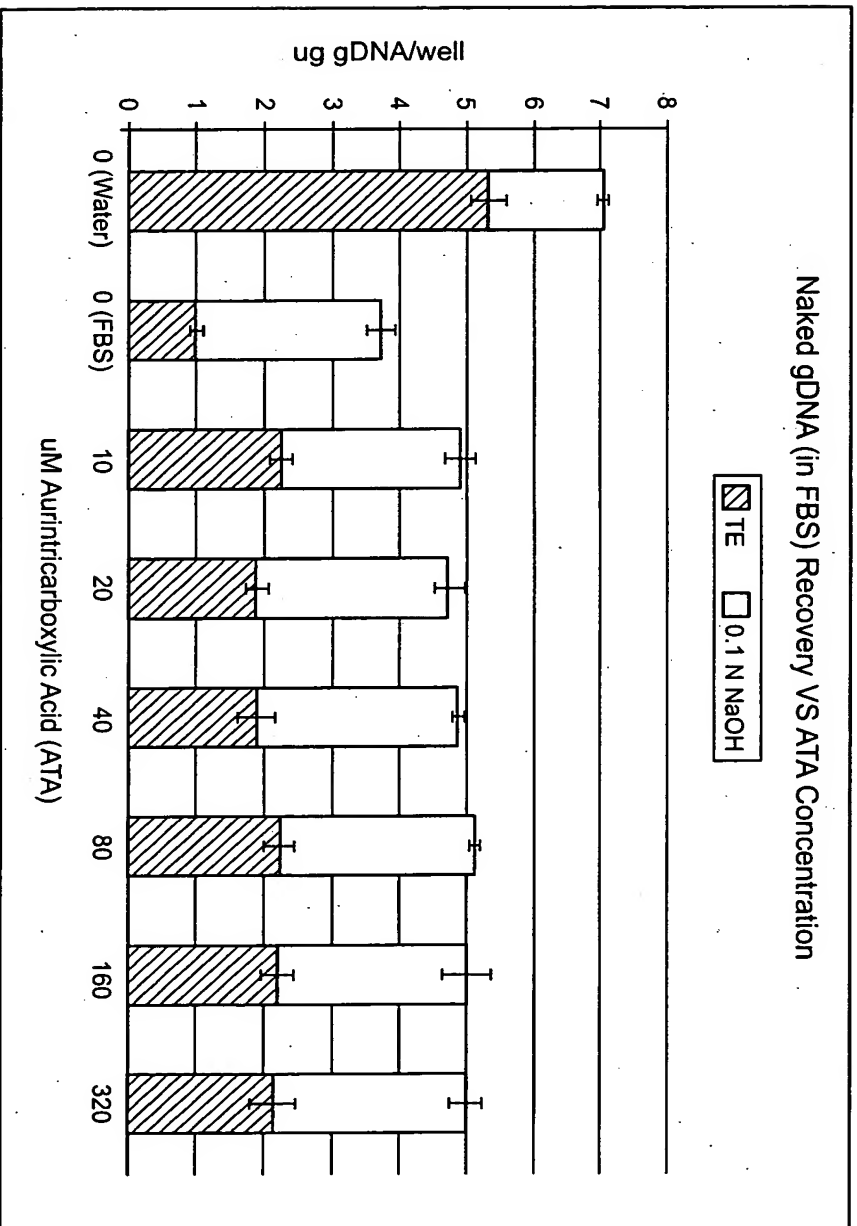


Figure 18

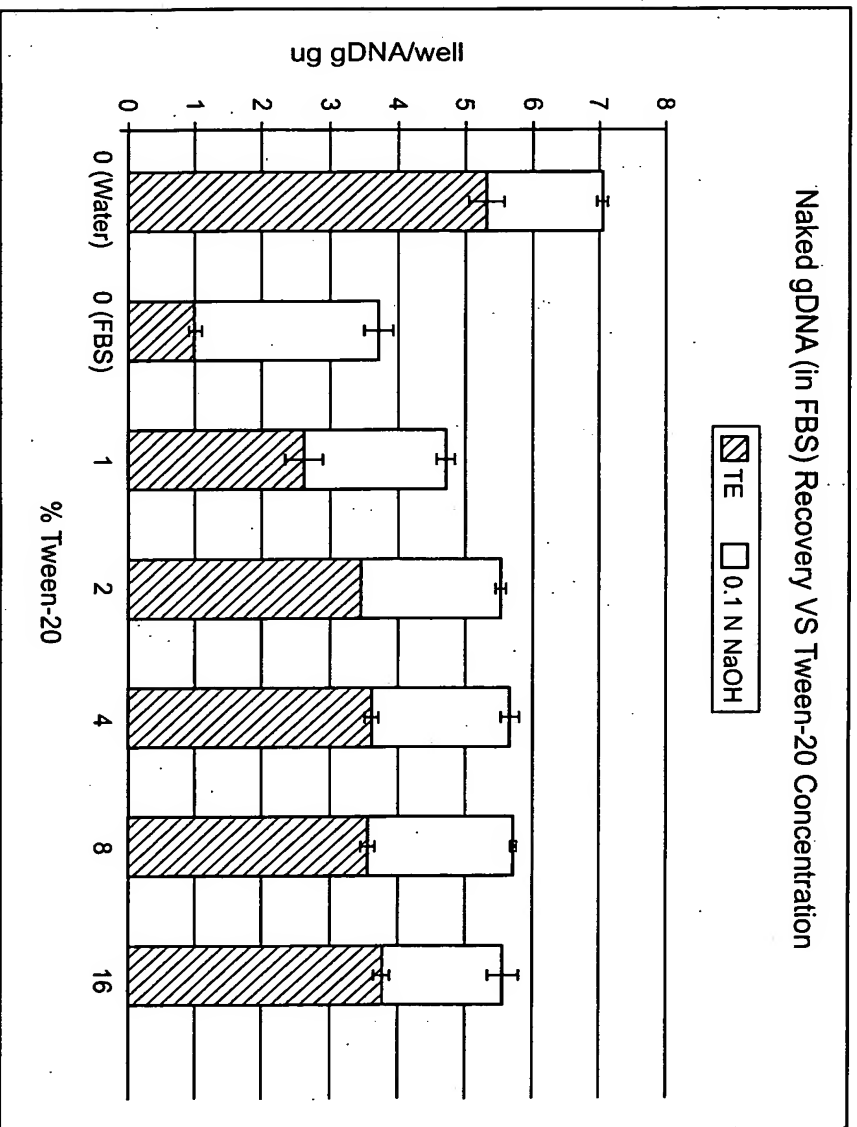


Figure 19

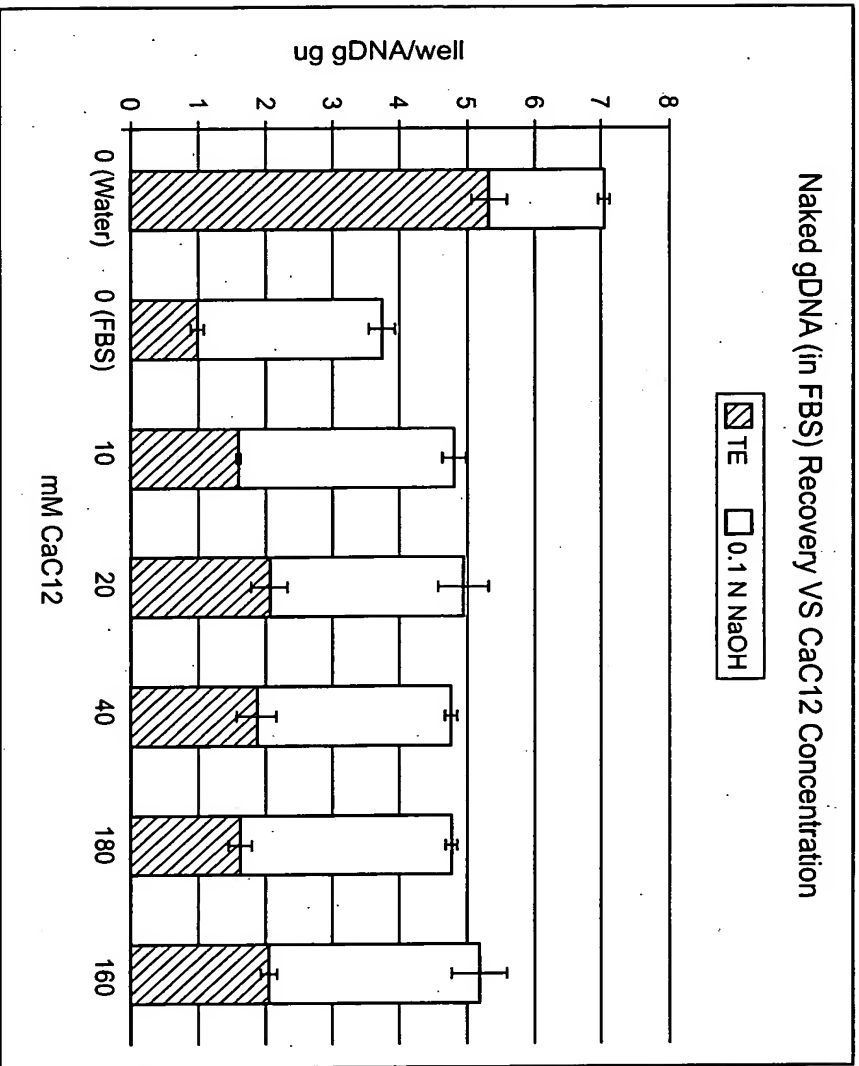


Figure 20

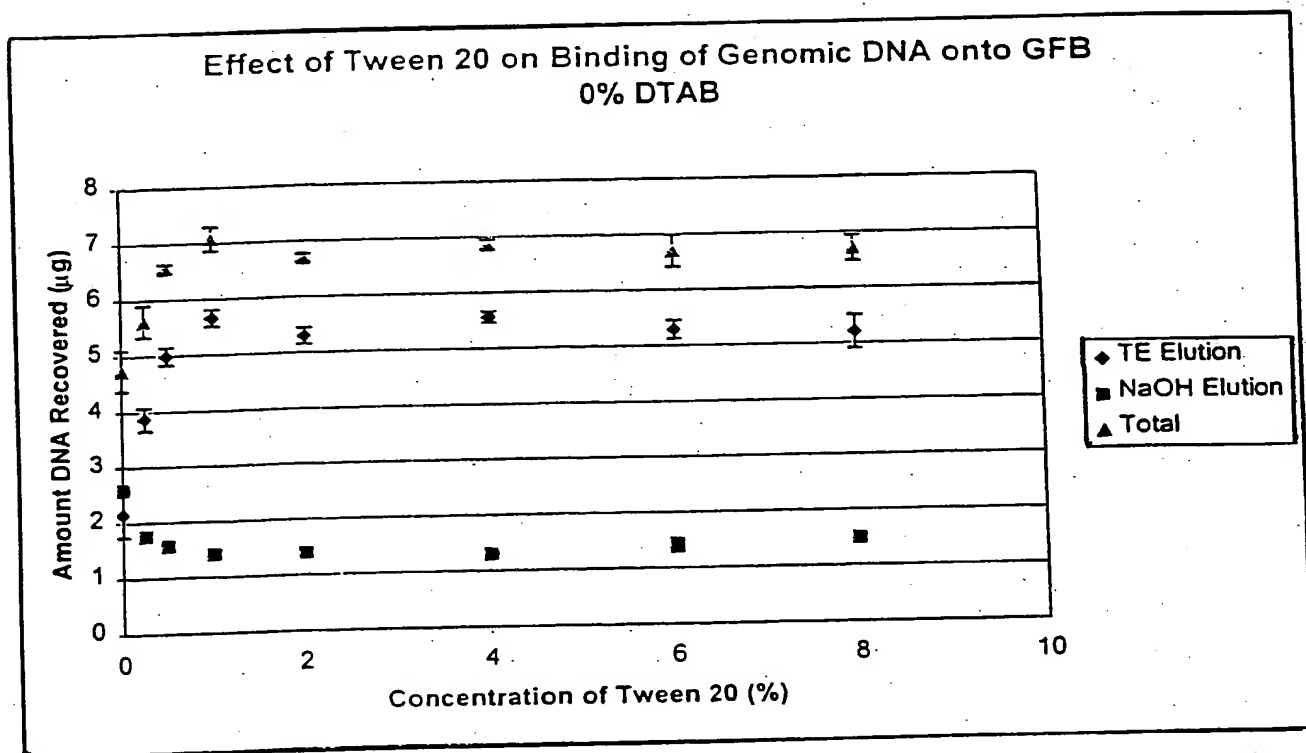


Figure 21

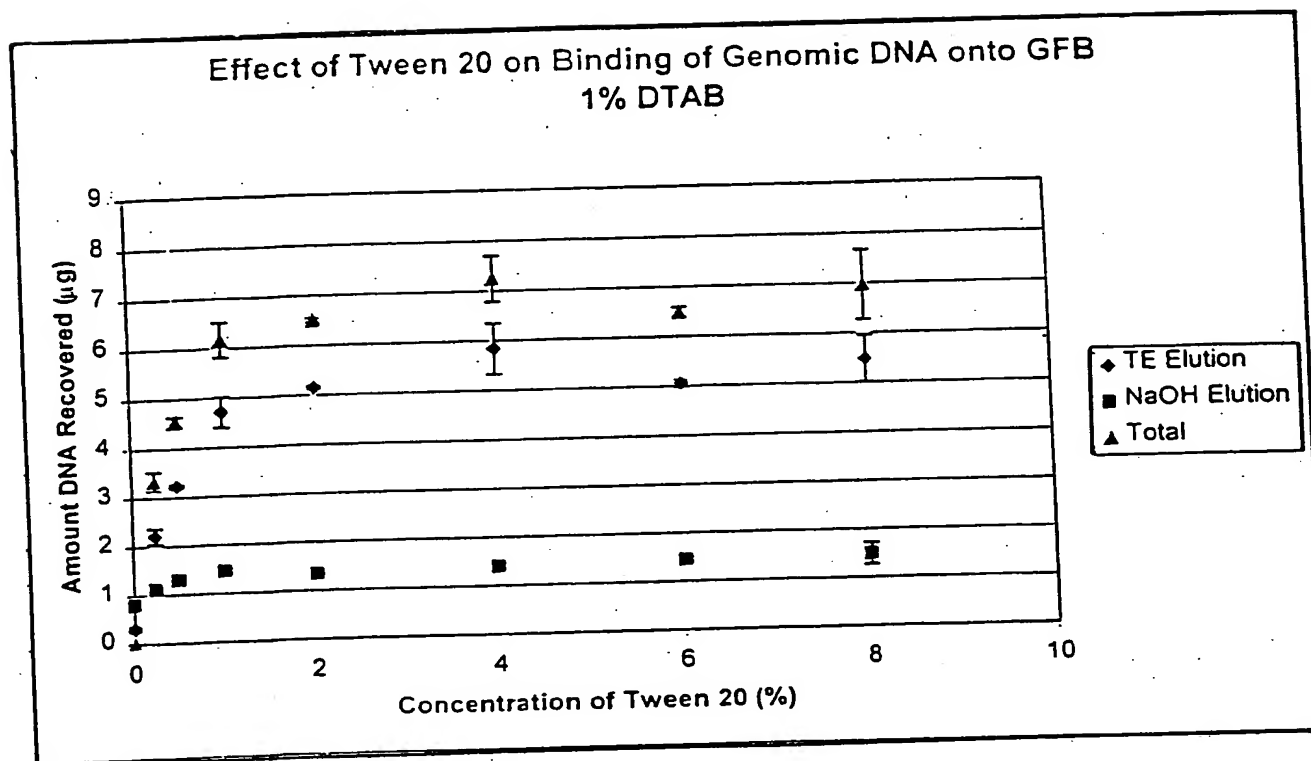


Figure 22

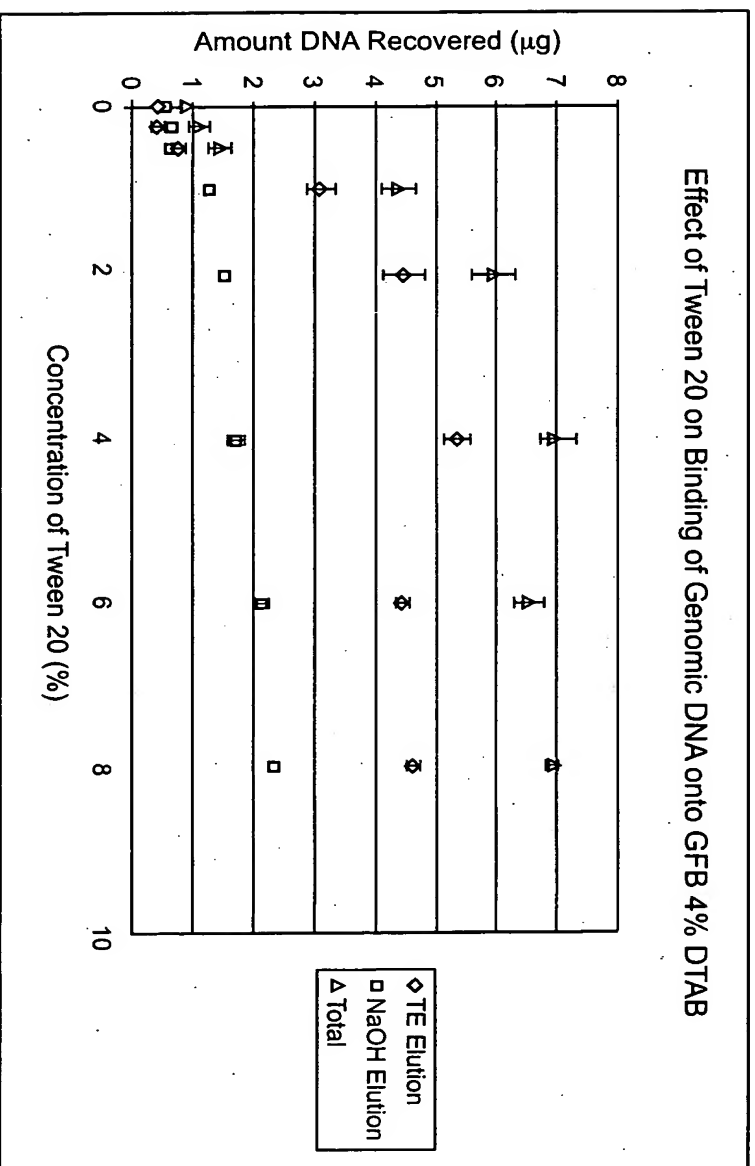


Figure 23

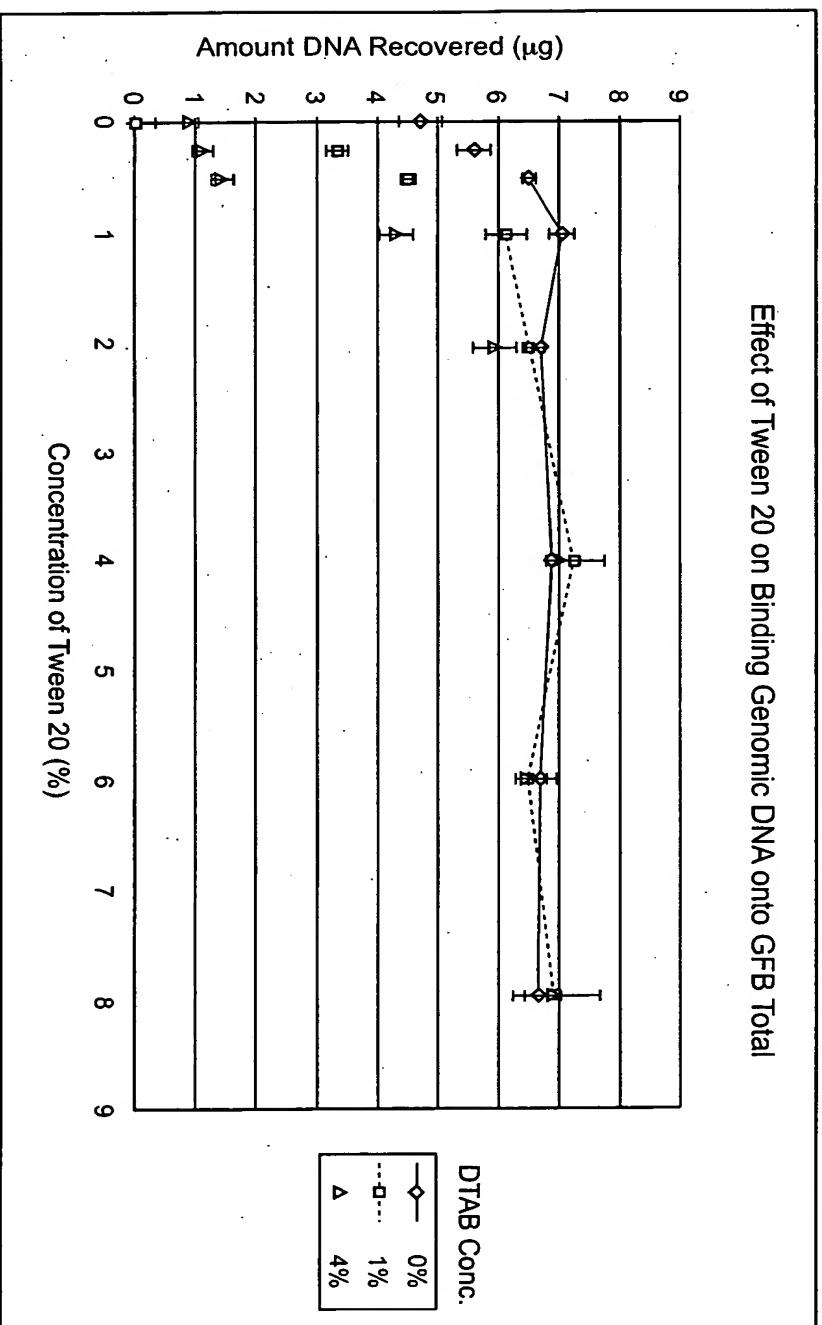


Figure 24

Effect of Tween 20 on Binding of Genomic DNA onto GFB TE Elution

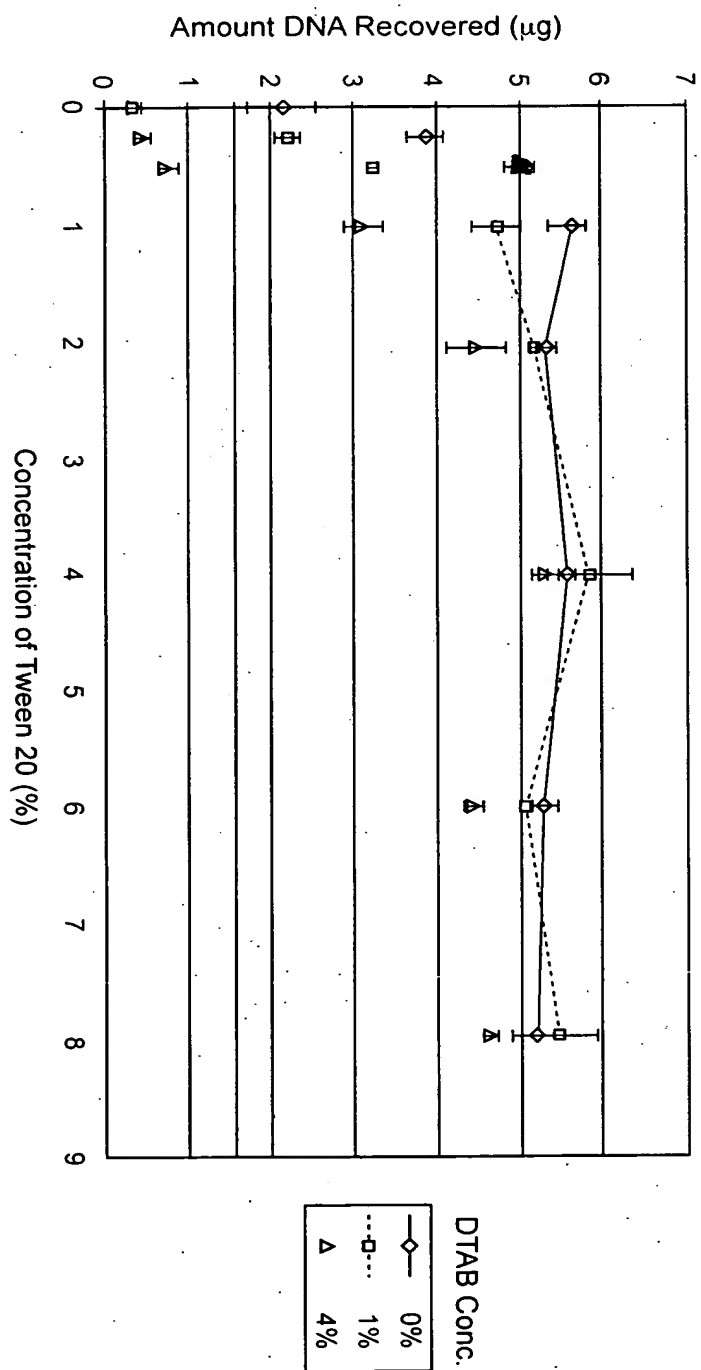


Figure 25

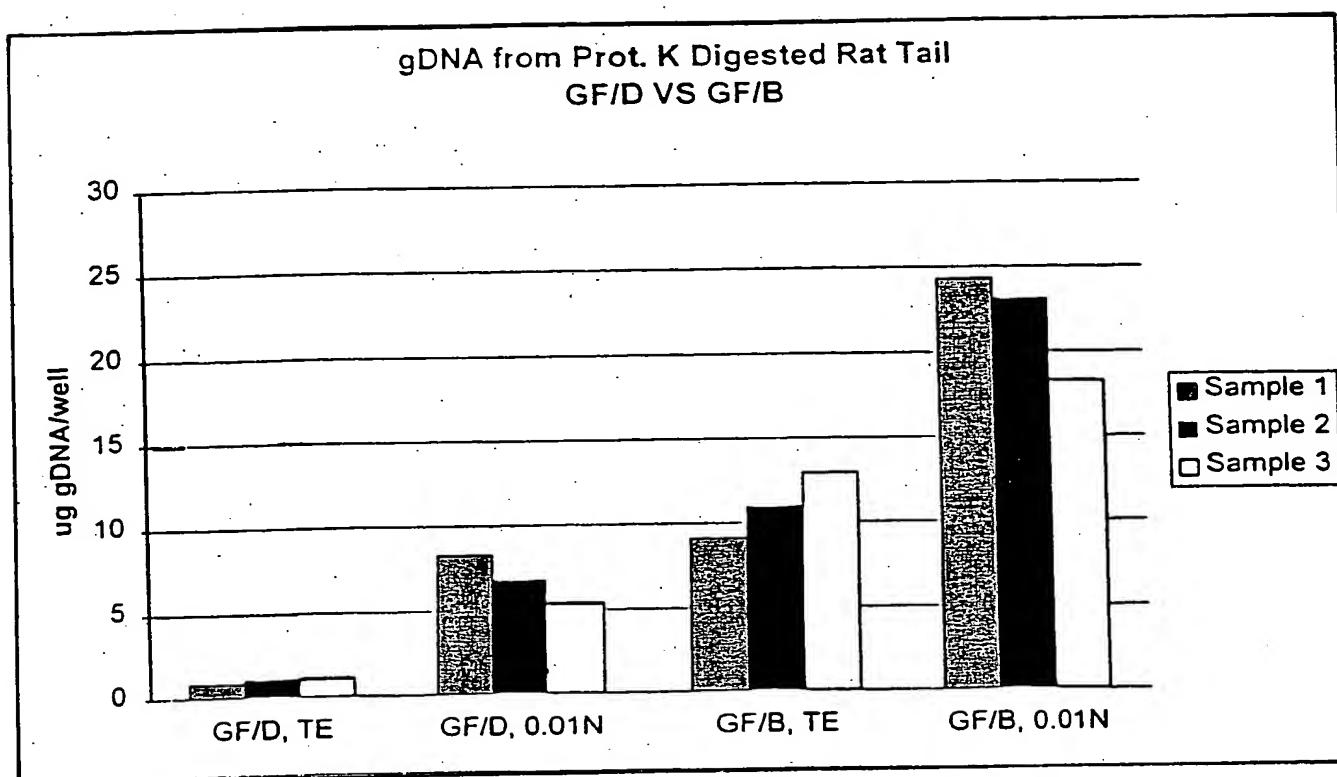


Figure 26

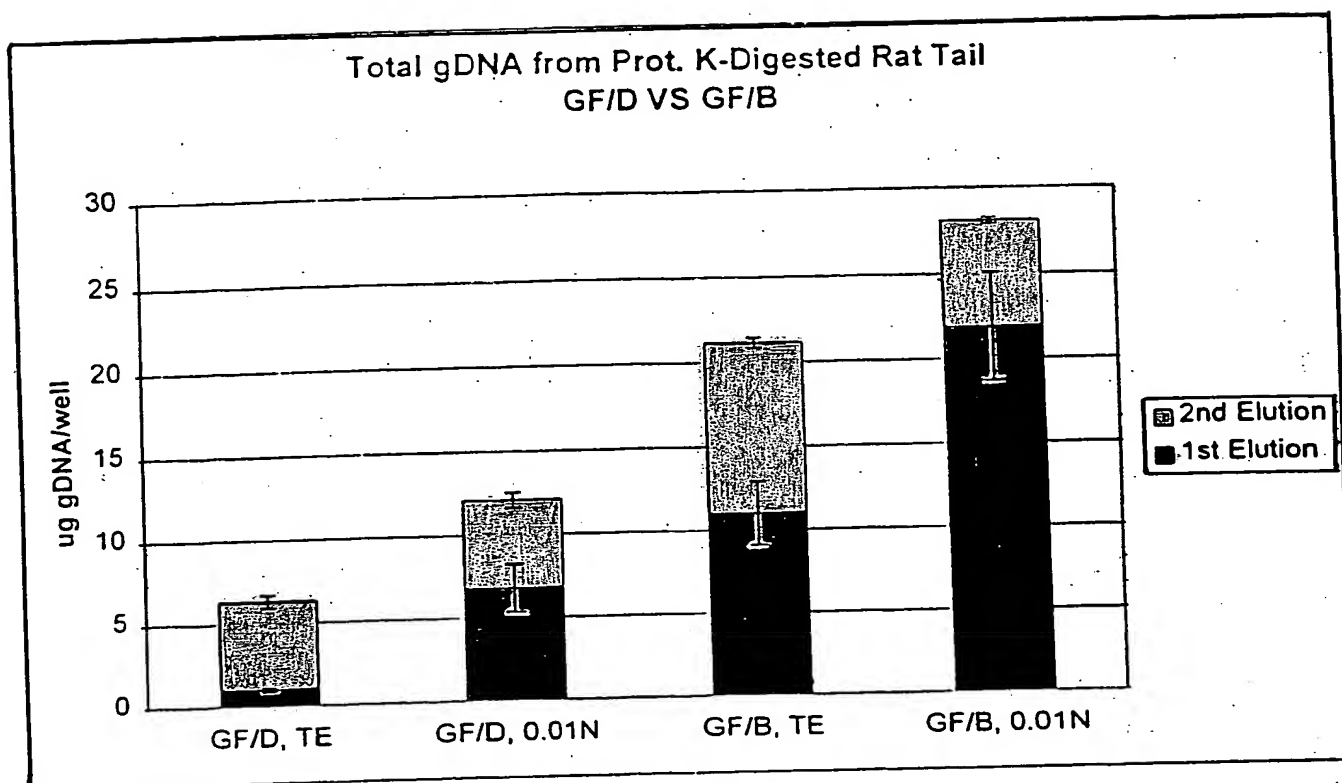
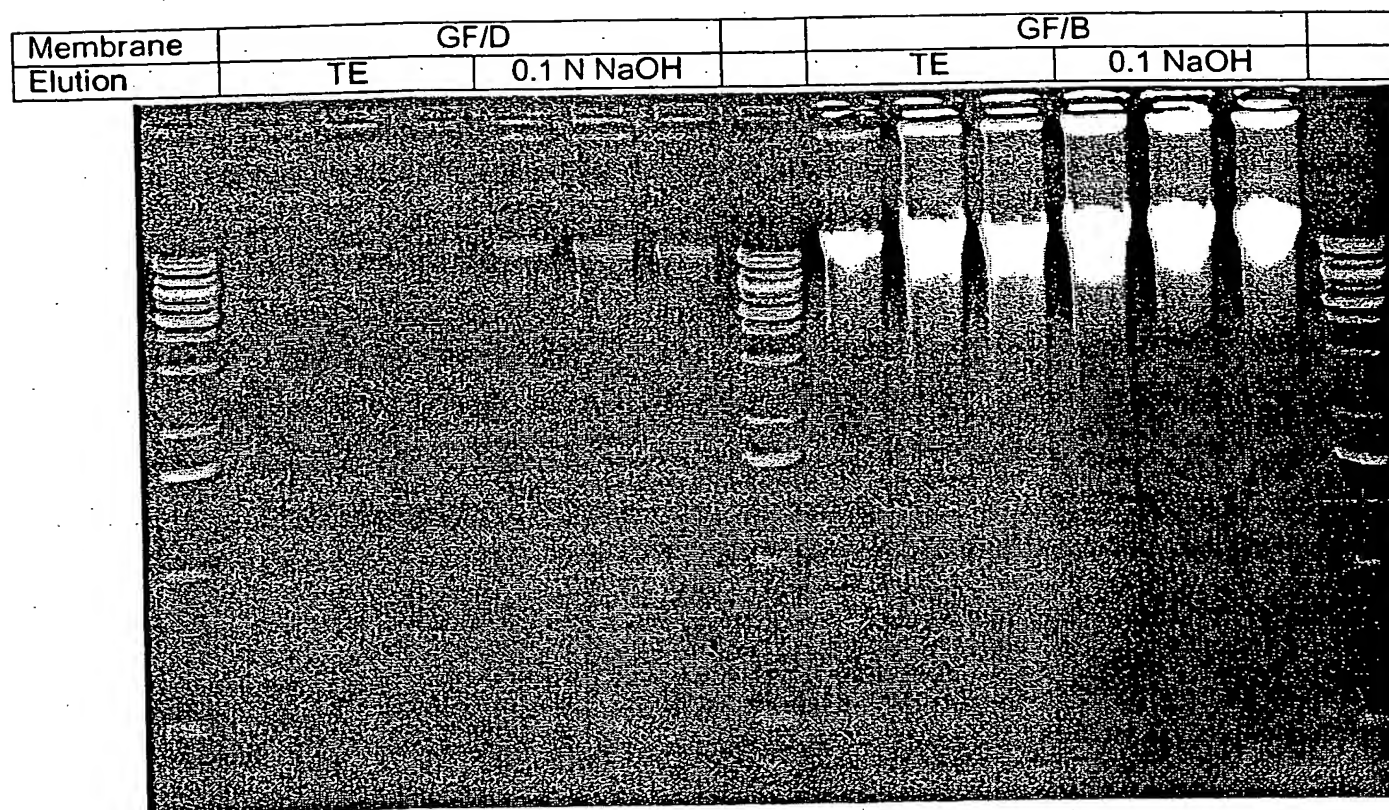


Figure 27



Genomic DNA from 50 mg rat tail sections digested with 1 mg of Prot. K & 1% DTAB and bound onto GF/B and GF/D membranes under 3.75 M GuSCN and 4.5 % Tween 20. The gDNA was finally eluted with of 150 mL of 1X TE and 0.01 N NaOH solutions and 20 mL was used for gel electrophoresis (1 % agarose).

Figure 28

gDNA Recovery and Purity from 50 mg Rodent Tissues (3 GF/B Layers)

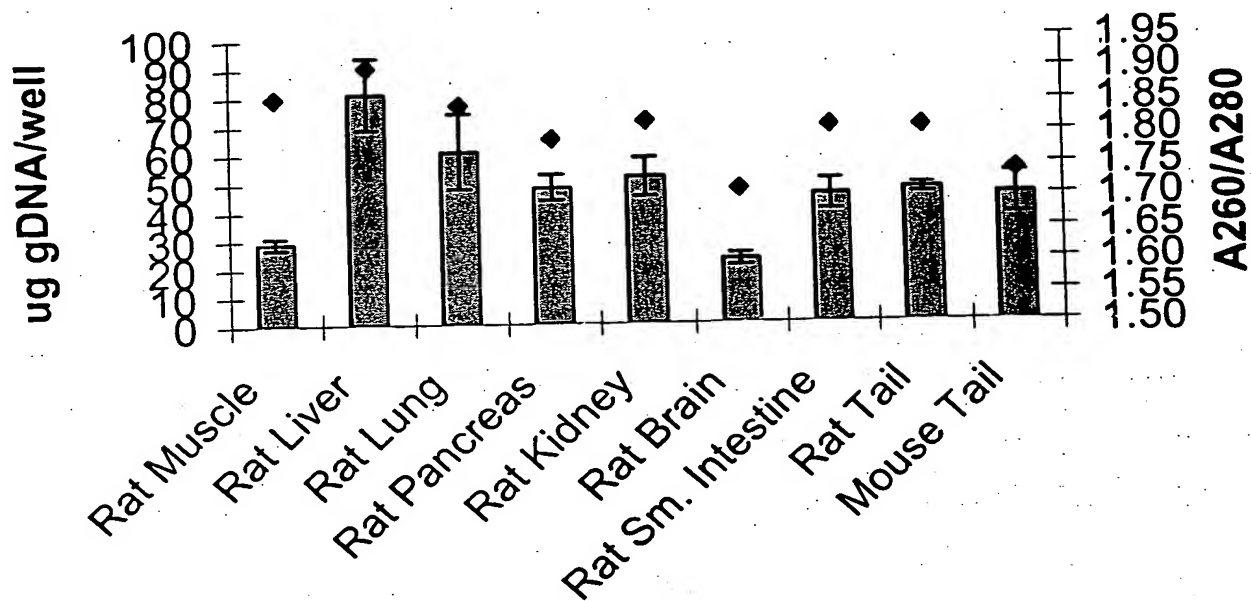
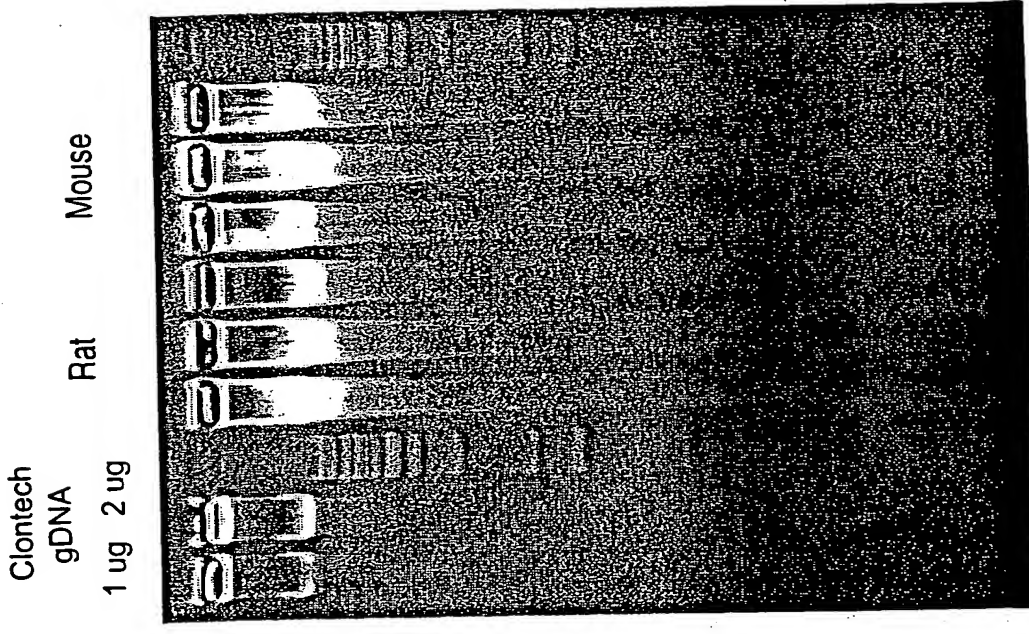
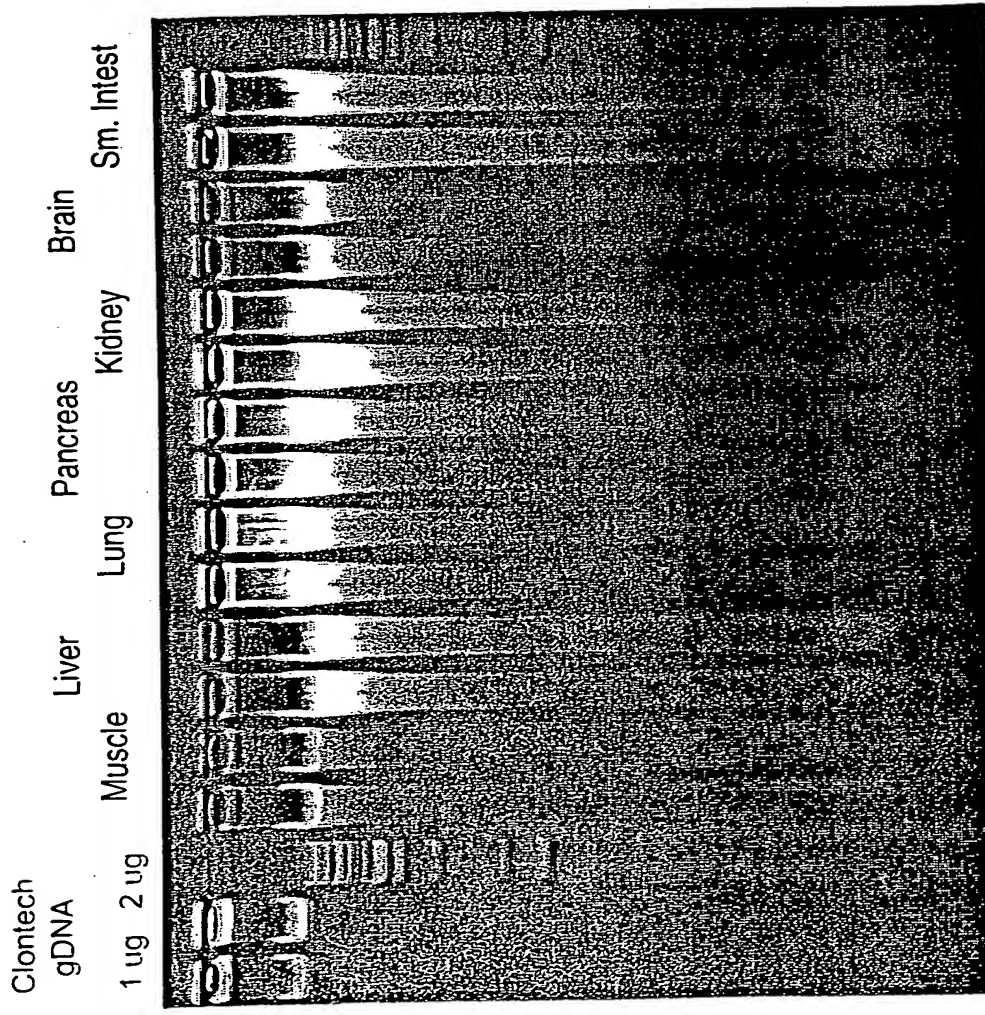


Figure 29

gDNA fr. 50 mg Rodent Tails



gDNA from 50 mg Rat Tissues



Loaded 10 uL per well out of 200 uL Eluate

Figure 30